

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054271 A1

- (51) International Patent Classification⁷: **C07J 31/00**, 41/00
- (21) International Application Number: PCT/AU2004/001701
- (22) International Filing Date: 1 December 2004 (01.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2003906637 1 December 2003 (01.12.2003) AU
- (71) Applicant: **COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION** [AU/AU]; Limestone Avenue, Campbell, Australian Capital Territory 2612 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **JOHNSON, Wynona, Marguerite** [AU/AU]; 10 Glendowan Road, Mount Waverley, Victoria 3149 (AU). **BLIESE, Marianne** [AU/AU]; 49 Sunhill Road, Mount Waverley, Victoria 3149 (AU). **GRAHAM, Lloyd** [AU/AU]; Unit 12, 5 Lachlan Avenue, North Ryde, New South Wales 2113 (AU). **HANNAN, Gary** [AU/AU]; 32 Earl Street, Hunters Hill, New South Wales 2110 (AU). **HILL, Ronald** [AU/AU]; 17 Altona Street, Forestville, New South Wales 2087 (AU).
- (74) Agent: **BLAKE DAWSON WALDRON PATENT SERVICES**; Level 39, 101 Collins Street, Melbourne, Victoria 3000 (AU).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— *with international search report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: ASSAY FOR LIGANDS OF THE ECDYSONE RECEPTOR

(57) Abstract: The present invention provides an ecdysteroid derivative in which a fluorescent moiety is attached to an ecdysteroid moiety by derivatisation of a hydroxyl group on the alkyl side chain of the ecdysteroid moiety. The derivative is capable of binding to an ecdysone receptor or ligand binding domain thereof and can be used in assays.

WO 2005/054271 A1